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9/18/96

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**RAW SEQUENCE LISTING
PATENT APPLICATION US/08/554,424**DATE: 09/13/96
TIME: 14:51:15**INPUT SET: S2801.raw****This Raw Listing contains the General Information Section and up to the first 5 pages.**1 SEQUENCE LISTING
2 **ENTERED**

3 (1) General Information:

4 (i) APPLICANT: Warmke, Jeffrey W.
5 Van Der Ploeg, Leonardus6 (ii) TITLE OF INVENTION: PROCESS FOR FUNCTIONAL EXPRESSION OF THE
7 PARA SODIUM CHANNEL

8 (iii) NUMBER OF SEQUENCES: 7

9 (iv) CORRESPONDENCE ADDRESS:

10 (A) ADDRESSEE: Jack L. Tribble
11 (B) STREET: P.O. Box 2000, 126 E. Lincoln Avenue
12 (C) CITY: Rahway
13 (D) STATE: New Jersey
14 (E) COUNTRY: USA
15 (F) ZIP: 07065-0907

16 (v) COMPUTER READABLE FORM:

17 (A) MEDIUM TYPE: Floppy disk
18 (B) COMPUTER: IBM PC compatible
19 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
20 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25

21 (vi) CURRENT APPLICATION DATA:

22 (A) APPLICATION NUMBER:
23 (B) FILING DATE:
24 (C) CLASSIFICATION:

25 (viii) ATTORNEY/AGENT INFORMATION:

26 (A) NAME: Tribble, Jack L.
27 (B) REGISTRATION NUMBER: 32,633
28 (C) REFERENCE/DOCKET NUMBER: 19338DA

29 (ix) TELECOMMUNICATION INFORMATION:

30 (A) TELEPHONE: (908) 594-5321
31 (B) TELEFAX: (908) 594-4720

32 (2) INFORMATION FOR SEQ ID NO:1:

33 (i) SEQUENCE CHARACTERISTICS:
34 (A) LENGTH: 33 base pairs
35 (B) TYPE: nucleic acid

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47 (C) STRANDEDNESS: single
48 (D) TOPOLOGY: linear
49
50 (ii) MOLECULE TYPE: cDNA
51
52
53
54 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
55
56 GACTCTAGAC GTTGGCCGCA TAGACAATGA CAG 33
57
58 (2) INFORMATION FOR SEQ ID NO:2:
59
60 (i) SEQUENCE CHARACTERISTICS:
61 (A) LENGTH: 21 base pairs
62 (B) TYPE: nucleic acid
63 (C) STRANDEDNESS: single
64 (D) TOPOLOGY: linear
65
66 (ii) MOLECULE TYPE: cDNA
67
68
69
70 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
71
72 AAGAGCTCGA CGAAGGGATC G 21
73
74 (2) INFORMATION FOR SEQ ID NO:3:
75
76 (i) SEQUENCE CHARACTERISTICS:
77 (A) LENGTH: 24 base pairs
78 (B) TYPE: nucleic acid
79 (C) STRANDEDNESS: single
80 (D) TOPOLOGY: linear
81
82 (ii) MOLECULE TYPE: cDNA
83
84
85
86 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
87
88 TCTTCGATCC CTTCGTCGAG CTCT 24
89
90 (2) INFORMATION FOR SEQ ID NO:4:
91
92 (i) SEQUENCE CHARACTERISTICS:
93 (A) LENGTH: 21 base pairs
94 (B) TYPE: nucleic acid
95 (C) STRANDEDNESS: single
96 (D) TOPOLOGY: linear
97
98 (ii) MOLECULE TYPE: cDNA
99

**RAW SEQUENCE LISTING
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100
101
102 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
103
104 AAAGGATCCA AATATGATGA A 21
105
106 (2) INFORMATION FOR SEQ ID NO:5:
107
108 (i) SEQUENCE CHARACTERISTICS:
109 (A) LENGTH: 25 base pairs
110 (B) TYPE: nucleic acid
111 (C) STRANDEDNESS: single
112 (D) TOPOLOGY: linear
113
114 (ii) MOLECULE TYPE: cDNA
115
116
117
118 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
119
120 TTTGGATCCT TTTTCACACT CAATC 25
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122 (2) INFORMATION FOR SEQ ID NO:6:
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124 (i) SEQUENCE CHARACTERISTICS:
125 (A) LENGTH: 32 base pairs
126 (B) TYPE: nucleic acid
127 (C) STRANDEDNESS: single
128 (D) TOPOLOGY: linear
129
130 (ii) MOLECULE TYPE: cDNA
131
132
133
134 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:
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136 GACTCTAGAG CTAATACTCG CGTGCATCTT GG 32
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138 (2) INFORMATION FOR SEQ ID NO:7:
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140 (i) SEQUENCE CHARACTERISTICS:
141 (A) LENGTH: 6513 base pairs
142 (B) TYPE: nucleic acid
143 (C) STRANDEDNESS: single
144 (D) TOPOLOGY: linear
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146 (ii) MOLECULE TYPE: cDNA
147
148
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150 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
151
152 TCTAGACGTT GGCCGCATAG ACAATGACAG AAGATTCCGA CTCGATATCT GAGGAAGAAC 60

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PATENT APPLICATION US/08/554,424DATE: 09/13/96
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153 GCAGTTGTT CCGTCCCTT ACCCGCAAT CATTGGTCA AATCGAACAA CGCATTGCCG 120
154 CTGAACATGA AAAGCAGAAG GAGCTGGAAA GAAAGAGAGC CGAGGGAGAG GTGCCGCGAT 180
155 156 ATGGTCGCAA GAAAAAACAA AAAGAAATCC GATATGATGA CGAGGACGAG GATGAAGGTC 240
157 158 CACAACCGGA TCCTACACTT GAACAGGGTG TGCCAATACC TGTCGATTG CAGGGCAGCT 300
159 160 TCCC GCCCGGA ATTGGCCTCC ACTCCTCTCG AGGATATCGA TCCCTACTAC AGCAATGTAC 360
161 162 TGACATT CGT AGTTGTAAGC AAAGGAAAAG ATATTTTCG CTTTCTGCA TCAAAAGCAA 420
163 164 TGTGGATGCT CGATCCATT AATCCGATAC GTCGTGTCGC CATTTACATT CTAGTGCATC 480
165 166 CATTATTTTC CCTATT CATC ATCACCAACAA TTCTCGTCAA CTGCATCCTG ATGATAATGC 540
167 168 CGACAA CGGCC CACGGTTGAG TCCACTGAGG TGATATTCA CGGAATCTAC ACATTTGAAT 600
169 170 CAGCTGTTAA AGTGATGGCA CGAGGTTCA TTTTATGCCG GTTACGTAT CTTAGAGATG 660
171 172 CATGGAAATTG GCTGGACTTC GTAGTAATAG CTTTAGCTTA TGTGACCATG GGTATAGATT 720
173 174 TAGGTAATCT AGCAGCCCTG CGAACGTTA GGGTGCTGCG AGCGCTTAAA ACCGTAGCCA 780
175 176 TTGTGCCAGG CTTGAAGACC ATCGTCGGCG CCGTCATCGA ATCGGTGAAG AATCTGCGCG 840
177 178 ATGTGATTAT CCTGACCATG TTCTCCCTGT CGGTGTTCGC GTTGATGGC CTACAGATCT 900
179 180 ATATGGCGT GCTCACCGAG AAGTGCATCA AGAAGTTCCC GCTGGACGGT TCCTGGGCA 960
181 182 ATCTGACCGA CGAGAACTGG GACTATCACA ATCGCAATAG CTCCAATTGG TATTCCGAGG 1020
183 184 ACGAGGGCAT CTCATTTCCG TTATGCGGCA ATATATCCGG TGCGGGGCAA TGCGACGACG 1080
185 186 ATTACGTGTG CCTGCAGGGG TTTGGTCCGA ATCCGAATTA TGGCTACACC AGCTTCGATT 1140
187 188 CGTTCGGATG GGCTTTCTG TCCGCCCTCC GGCTGATGAC ACAGGACTTC TGGGAGGATC 1200
189 190 TGTACCAGCT GGTGTTGCGC GCCGCCGGAC CATGGCACAT GCTGTTCTTT ATAGTCATCA 1260
191 192 TCTTCCTAGG TTCATTCTAT CTTGTGAATT TGATTTGGC CATTGTTGCC ATGTCGTATG 1320
193 194 ACGAATTGCA AAGGAAGGCC GAAGAAGAAG AGGCTGCCGA AGAGGAGGCG ATACGTGAAG 1380
195 196 CGGAAGAACG TGCCGCCGCC AAAGCGGCCA AGCTGGAGGA GCGGGCCAAT GCGCAGGCTC 1440
197 198 AGGCAGCAGC GGATGCGGCT GCCGCCGAAG AGGCTGCACT GCATCCGGAA ATGGCCAAGA 1500
199 200 GTCCGACGTA TTCTTGACATC AGCTATGAGC TATTTGTTGG CGGCGAGAAG GGCAACGATG 1560
201 202 ACAACAAACAA AGAGAAGATG TCCATT CGGA GCGTCGAGGT GGAGTCGGAG TCGGTGAGCG 1620
203 204 205

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206	TTATACAAAG ACAACCAGCA CCTACCACAG CACACCAAGC TACCAAAGTT CGTAAAGTGA	1680
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208	GCACGACATC CTTATCCTTA CCTGGTTCAC CGTTAACAT ACGCAGGGGA TCACGTAGTT	1740
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212	AGCCATTGGT ATTGTCAACA TATCAGGATG CCCAGCAGCA CTTGCCCTAT GCCGACGACT	1860
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214	CGAATGCCGT CACCCCGATG TCCGAAGAGA ATGGGGCCAT CATAGTGCCC GTGTACTATG	1920
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216	GCAATCTAGG CTCCCGACAC TCATCGTATA CCTCGCATCA GTCCCGAATA TCGTATAACCT	1980
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218	CACATGGCGA TCTACTCGGC GGCATGGCCG TCATGGCGT CAGCACAATG ACCAAGGAGA	2040
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220	GCAAATTGCG CAACCGCAAC ACACGCAATC AATCAGTGGG CGCCACCAAT GGCGGCACCA	2100
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222	CCTGTCTGGA CACCAATCAC AAGCTCGATC ATCGCGACTA CGAAATTGGC CTGGAGTGCA	2160
223		
224	CGGACGAAGC TGGCAAGATT AAACATCATG ACAATCCTTT TATCGAGCCC GTCCAGACAC	2220
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226	AAACGGTGGT TGATATGAAA GATGTGATGG TCCTGAATGA CATCATCGAA CAGGCCGCTG	2280
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228	GTCGGCACAG TCGGGCAAGC GATCGCGGTG TCTCCGTTA CTATTTCCA ACAGAGGACG	2340
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230	ATGACGAGGA TGGGCCGACG TTCAAAGACA AGGCACTCGA AGTGATCCTC AAAGGCATCG	2400
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232	ATGTGTTTG TGTGTGGAC TGTTGCTGGG TTTGGTTGAA ATTCAGGAG TGGGTATCGC	2460
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234	TCATCGTCTT CGATCCCTTC GTCGAGCTCT TCATCACCGCT GTGCATTGTG GTCAACACGA	2520
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236	TGTTCATGGC AATGGATCAC CACGATATGA ACAAGGAGAT GGAACGCGTG CTCAAGAGTG	2580
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242	CGCTATTGGA ACTGGGACTC GAGGGTGTCC AGGGTCTGTC CGTATTGCGT TCCTTTCGAT	2760
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244	TGCTCGTGT ATTCAAAC TGCCAAAGTCTT GGCCCACACT TAATTTACTC ATTCGATTA	2820
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252	TGTTCCGGGT GCTCTGCGGA GAATGGATCG AGTCCATGTG GGACTGCATG TACGTGGCG	3060
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254	ATGTCTCGTG CATTCCCTTC TTCTTGCCA CCGTTGTCAT CGGCAATCTT GTGGTACTTA	3120
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256	ACCTTTCTT AGCCTTGCTT TTGTCCAATT TTGGCTCATC TAGCTTATCA GCGCCGACTG	3180
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258	CCGATAACGA TACGAATAAA ATAGCCGAGG CCTTCAATCG AATTGGCCGA TTTAAAAGTT	3240

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SEQUENCE VERIFICATION REPORT
PATENT APPLICATION **US/08/554,424**

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